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## anti-USP15 antibody (N-Term)



Image



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Overview	
Quantity:	100 μL
Target:	USP15
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP15 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human USP15, corresponding to a region within N-terminal amino acids.
Isotype:	lgG
Specificity:	USP15 Antibody detects endogenous levels of total USP15.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).
Target Details	
Target:	USP15

Alternative Name:	USP15 (USP15 Products)
Background:	Description: Hydrolase that removes conjugated ubiquitin from target proteins and regulates
	various pathways such as the TGF-beta receptor signaling, NF-kappa-B and RNF41/NRDP1-
	PRKN pathways (PubMed:21947082, PubMed:22344298, PubMed:24852371,
	PubMed:16005295, PubMed:17318178, PubMed:19826004, PubMed:19576224). Acts as a ke
	regulator of TGF-beta receptor signaling pathway, but the precise mechanism is still unclear:
	according to a report, acts by promoting deubiquitination of monoubiquitinated R-SMADs
	(SMAD1, SMAD2 and/or SMAD3), thereby alleviating inhibition of R-SMADs and promoting
	activation of TGF-beta target genes (PubMed:21947082). According to another reports,
	regulates the TGF-beta receptor signaling pathway by mediating deubiquitination and
	stabilization of TGFBR1, leading to an enhanced TGF-beta signal (PubMed:22344298). Able to
	mediate deubiquitination of monoubiquitinated substrates as well as 'Lys-48'-linked
	polyubiquitin chains, protecting them against proteasomal degradation. May also regulate ge
	expression and/or DNA repair through the deubiquitination of histone H2B (PubMed:2452668
	Acts as an inhibitor of mitophagy by counteracting the action of parkin (PRKN): hydrolyzes
	cleavage of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains attached by parkin on target
	proteins such as MFN2, thereby reducing parkin's ability to drive mitophagy
	(PubMed:24852371). Acts as an associated component of COP9 signalosome complex (CSN
	and regulates different pathways via this association: regulates NF-kappa-B by mediating
	deubiquitination of NFKBIA and deubiquitinates substrates bound to VCP (PubMed:16005295
	PubMed:17318178, PubMed:19826004, PubMed:19576224). Involved in endosome
	organization by mediating deubiquitination of SQSTM1: ubiquitinated SQSTM1 forms a
	molecular bridge that restrains cognate vesicles in the perinuclear region and its
	deubiquitination releases target vesicles for fast transport into the cell periphery
	(PubMed:27368102).
	Gene: USP15
Molecular Weight:	115 kDa
Gene ID:	9958
UniProt:	Q9Y4E8

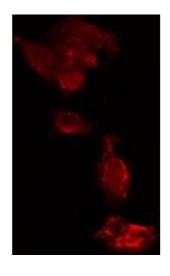
### **Application Details**

Application Notes:	WB 1:500-1:1000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

#### Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

#### **Images**



#### Immunofluorescence (fixed cells)

**Image 1.** ABIN6275652 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25;ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37;ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod